BATTERIES FOR
SOLAR POWERED
APPLICATIONS

LONG-LIFE
(IN TRICKLE CHARGING)

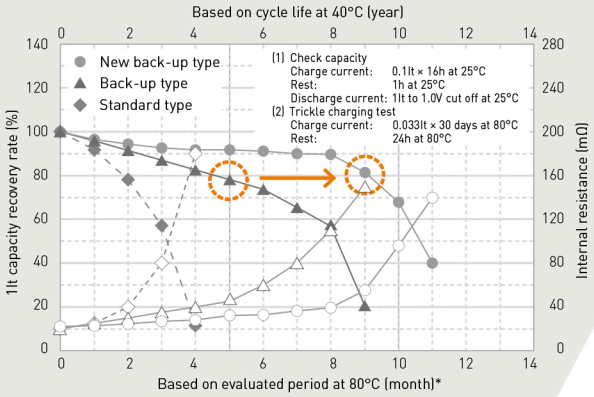
Designed to achieve trickle charging for exchanging with Nickel-Cadmium batteries

4–6 years BACK-UP TYPE

200% → EXPECTED LIFE **about double**

8–12 years **NEW** BACK-UP TYPE

LIFE ESTIMATED BY EVALUATING ACCELERATED LIFE



* Accelerated evaluation assumes a trickle charging current of 0.033It at 80°C.

EXCELLENT CHARGING PERFORMANCE
IN HIGH TEMPERATURE ENVIRONMENT (UP TO 75°C)

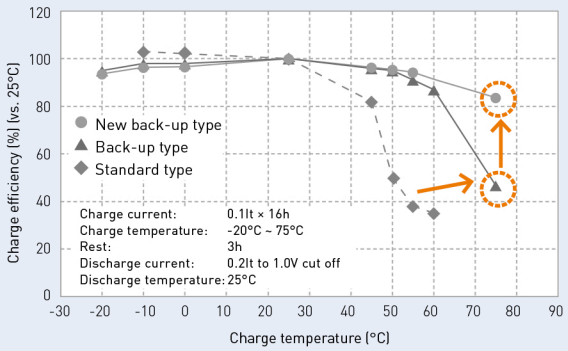
Extended upper temperature limit: 60°C to 75°C

46% BACK-UP TYPE

180% → CHARGING EFFICIENCY **about 1.8 times**

84% **NEW** BACK-UP TYPE

CHARGING CHARACTERISTICS



SUITABLE USE OF BK-1100FHU

Charge | Discharge	Wide temperature range (-30°C to 75°C | -40°C to 85°C)
Storage	Low self-discharge (eneloop technology)
Life	10 years durable cell*
Safety	IEC62133 compliant & no hazard substances

* Values for expected battery life are reference values only.
The expected life varies depending on the conditions in which the battery is used.

SUITABLE BATTERIES

Specifications		BK-1100FHU	BK-210AH	BK-250SCH
Diameter (mm)		33.0 0/-1.0	17.0 0/-0.7	23.0 0/-1.0
Height (mm)		91.0 0/-2.5	50.0 0/-2.0	43.0 0/-1.5
Approximate weight (g)		250	25	55
Nominal voltage (V)		1.2	1.2	1.2
Discharge capacity (mAh)*1	Typical*2	12,000	2,050	2,650
	Nominal	11,000	1,900	2,500
Approx. internal impedance at 1,000Hz at charged state (mΩ)		5	20	5
Charge (mA x hrs.)	Standard	1,100 x 16	190 x 16	250 x 16
	Rapid*3	5,500 x 2.4	1,000 x 2.3	1,250 x 2.4
	Low rate	550 x 32	95 x 32	125 x 32
		367 x 48	63 x 48	83 x 48
Ambient temperature — Charge (°C)	Standard	-30 to 75	-10 to 60	-10 to 60
	Rapid	-30 to 60	-10 to 60	-10 to 60
	Low rate	-30 to 75	-10 to 45	-10 to 45
Ambient temperature — Discharge (°C)		-40 to 85	-10 to 60	-10 to 60
Ambient temperature — Storage (°C)	<1 year	-20 to 35	-20 to 35	-20 to 35
	<6 months	-20 to 45	-20 to 45	-20 to 45
	<1 month	-20 to 55	-20 to 55	-20 to 55
	<1 week	-20 to 65	-20 to 65	-20 to 65

*1 After charging at 0.1It for 16 hours, discharging at 0.2It. *2 For reference only. *3 Needs specially designed control system. Please contact Panasonic for details.

Battery performance and cycle life are strongly affected by how the batteries are used. In order to maximise battery safety, please consult Panasonic when determining charge/discharge specs, warning label contents and design. The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

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